

DIAGNOSES OF CLERMONTIA SPECIES (LOBELIACEAE)

Hawaiian Plant Studies 146

Harold St. John
Bishop Museum, Box 19000A, Honolulu, Hawaii 96817, USA.

The types are in the Bishop Museum, unless elsewhere located.

Clermontia albimontis sp. nov. (sect. *Clermontia*), Fig. 1.

Diagnosis Holotypi: Ramulae puberulae sunt, petiolis puberulis, laminis 12-20 X 5.3-6.3 cm oblancei-elliptici subacutis serrulatis infra albe puberulis, cymis puberulis 2-floriferis, pedunculo 20 mm longo, pedicello 20 mm longo, gemmis grandis 4 X 1.5 cm pallide viridibus puberulis, anthers superis 12 mm longis. Typus: Hawaii I., Laupahoehoe, Ha'akoa Stream, F. R. Warshauer et al. 1,289.

C. bicolorata sp. nov. (sect. *Clermontioideae*). Fig. 2.

Frutex 3 m altus glaber est, petiolis 25-37 mm longis, laminis 10-16 X 2.2-4.8 cm fusiformi-ellipticis, cymis 2-floriferis, pedunculo 12 mm longo, lobis calycis 12-16 X 2.5-3 mm viridibus ligulatis, corolla in alabastro 2 cm longa bicolorata. Typus: Hawaii I., Kawaihae, Kehena Ditch, F. R. Warshauer & McEldowney 2,469.

C. epilosa sp. nov. (sect. *Clermontia*). Fig. 3.

Diagnosis Holotypi: Frutex glaber est, laminis 13-17.6 X 2,6-3.3 cm coriaceis anguste oblanceolatis serrulatis, cymis 8-10 cm longis 2-floriferis, pedunculo 2 cm longo, pedicellis 8-11 mm longis, perianthio 4.5 cm longo obscure rubris, antheris superis 13 mm longis. Typus: Hawaii I., Kaukini Honokane, G. Gillett 1,917.

C. glabra sp. nov. (sect. *Clermontia*), Fig. 4.

Diagnosis Holotypi: Frutex glaber est, petiolis 3.5-4.5 cm longis, laminis 19-22.5 X 5-6 cm oblanceolatis, cymis 12 cm longis 2-floriferis, pedunculo 45 mm longo, pedicellis 15 mm longis, lobis calycis petaloideis ad corollam aequantibus, corollis 45 mm longis obscure rubris, tubo filamentarum glabro, antheris glabris luteis eis superis 11 mm longis illis inferis 8 mm longis. Typus: Maui I., State Park, road to Hana, G. W. Gillett 1,686.

C. gracilis sp. nov. (sect. *Clermontia*), Fig. 5.

Diagnosis Holotypi: Frutex 2 m altus est, ramis resinosis hirsutis pilis cum apicibus rubris, petiolis 10-22 mm longis hirsutulis, laminis 4.5-11 X 1.8-3.4 cm subcoriaceis oblanceolatis screnatis supra remote minute puberulis et midnervo hirsutulo infra nervis hirsutulis, cymis 2-floriferis, pedunculo 9-11 mm longo minute puberulo, pedicellis 15-17 mm longis glabris, hypanthio cylindrico, lobis calycis petaloideis 22-27 mm longis

tubo 4 mm diametro rosaceis, corollis (immaturis) 15-20 mm. longis. Typus: Maui I., Kipahulu, P. K. Higashino et al. 9,278.

C. hualalaiensis sp. nov. (Sect. Clermontia), Fig. 6.

Diagnosis Holotypi: Laminis 10-12 X 2-3 cm anguste oblongi-ellipticis acutis crenulatis infra proxima midnervum pilosulis, cymis 8.5-10 cm longis 2-floriferis, pedunculo 25-32 mm longo, corollis 5 cm longis, antheris superis 14.5 mm longis. Typus: Hawaii I., Hualalai, G. W. Gillett 1,704.

C. kahuaensis sp. nov. (sect. Clermonioideae), Fig. 7.

Frutex 5 m altus est, petiolis 2.5-3 cm longis puberulis, laminis 11-14 X 3.2-3.8 cm fusiformi-ellipticissubacuminatis crenulatis infra nervis puberulis, cymis 2-floriferis, pedunculo 1 cm longo, pedicellis 8 mm longis, lobis calycis 4-4.5 mm longis anguste lanceolatis, corollis in gemma 2.5 cm longis puberulis. Typus: Hawaii I., Kahua 2, Pu'a Iki, R. L. Stemmermann et al. 4,000.

C. kakeana Meyen, var. *rosea* (Hillebr.) comb. nov.

C. macrocarpa Gaud., var. *rosea* Hillebr., Fl. Haw. Is. 241, 1888,

C. kipahuluensis sp. nov. (sect. Clermontia), Fig. 8.

Diagnosis holotypi: Frutex est, ramulis puberulis, petiolis 15-28 mm longis sparse puberulis, laminis 5.1-8.5 X 2-3.8 cm coriaceis ellipticis late acuminatis basi cuneata supra glabris infra midnervo hirsutulo, cymis 5-7-floriferis, pedunculo 8-11 mm longo puberulo, pedicellis 10-17 mm longis, calycibus petaloideis, perianthio 6 cm longo hamate recurvatoglabro albo, antheris glabris eis inferis 10 mm longis in apice penicillatis cum setis 1.5 mm longis. Typus: Maui I., Kipahulu, F. R. Warshauer et al. 2,886.

Clermontia mauiensis sp. nov. (sect. Clermontia), Fig. 9.

Diagnosis Holotypi: Frutex est, ramis glabris, petiolis 12-19 mm longis glabris, laminis 10.5-14 X 3.5-4.5 cm subcoriaceis elliptici-oblanceolatis acutis cuneatis serrulatis infra in nervis minute puberulis, cymis 2-floriferis, pedunculo 20 mm longo, pedicellis 12 mm longis, lobis calycis petaloideis simulantibus circa 4.5 cm longis, petalis 4.5 cm longis, antheris superis 10 mm longis. Typus: Maui I., Hana, Ke'anae, P. K. Higashino et al. 9,089.

C. pluriflora sp. nov. (sect. Clermonioideae), Fig. 10.

Diagnosis Holotypi: Petiolis 18 mm longis, laminis 22-25 X 5.5-7.8 cm fusiformi-ellipticis infra glaucis et nervis hirsutulis, cymis 3-6-floriferis pilosulis, lobis calycis 3 mm longis deltoideis, corollis 4 cm longis, tubo filamentarum pilosulis,

antheris superis 10.5 mm longis glabris. Typus: Kauai I., Alakai, L. M. Cranwell & Skottsberg 2,983,

C. spatulata sp. nov. (sect. Clermontia).

Diagnosis Holotypi: Frutex 2 m altus cum 45-50 ramis glabris est, petiolis 1-2 cm longis glabris, laminis 3.5-8 X 1.2-2.2 cm glabris spatulatis obtusis in dimidio apicali marginibus crenatis infra subalbis, inflorescentia glabra cernua 2-florifera, pedunculo 3.5-5 cm longofili-formi, pedicellis 3-3.5 cm longis, lobis calycis petaloid-eis, perianthio 5.5 cm longo pallide viridi et purpur-eo-tincto, tubo filamentarum glabro, antheris inferis 9 mm longis aliter glabris sed in apice penicillatis cum setis 1.5mm longis. Typus: Maui I., Honokawai, F. R. Warshauer & McEldowney 3,033.

C. subteralbulus sp. nov. (sect. Clermontia).

Diagnosis Holotypi: Frutex glaber est, petiolis 15-20 mm longis, laminis 7-10 X 1.6-3.4 cm coriaceis ob-lanceolatis acutis basi cuneata, cymis 6 cm longis 2-floriferis, pedunculis 15 mm longis, pedicellis 15 mm longis, lobis calycis 5 cm longis petaloideis, lobis cor-ollae 5 cm longis viridibus, floribus arcuate decur-vatis, baccis 2 cm longis. Typus: Hawaii I., Makaopuhi, H. Hoshida & S. Kawaloa 2-5.

C. viridis sp. nov. (sect. Clermontia). Fig. 11.

Diagnosis Holotypi: Frutex est, caule hirsutulo, petiolis 4-4.5 cm longis hirsutulis, laminis 21-23 X 6.5-7.5 cm chartaceis ellipticis cuneatis serrulatis infra in nervis puberulis, cymis 11 cm longis 2-flor-iferis puberulis, pedunculo 4 cm longo, pedicellis 3 cm longis, lobis calycis in gemma 4.5 cm longis petaloideis decurvatis. Typus: Hawaii I., Makakupu, P. Conant (Jacobi no. 630.).

C. waikoluensis sp. nov. (sect. Clermontioideae), Fig. 12.

Diagnosis Holotypi: Frutex ramosus est, laminis 9-15 X 2-3.6 cm oblongo-ellipticis, inflorescentia glabra 2-florifera, pedunculo 10-22 mm longo, pedicellis 25-42 mm longis, lobis calycis 2 mm longis deltodideis, corolla 6.5-7.5 cm longa subviridi, baccis 25 mm vel ultra diametro. Typus: Molokai I., Waikolu, H. St. John 25,222.

LEGEND

- Fig. 1. *Clermontia albimontis* St. John.
 Fig. 2. *Clermontia bicolorata* St. John.
 Fig. 3. *Clermontis epilosa* St. John
 Fig. 4. *Clermontia glabra* St. John.
 Fig. 5. *Clermontia gracilis* St. John.
 Fig. 6. *Clermontia hualalaiensis* St. John.

- Fig. 7. *Clermontia kahuaensis* St. John.
- Fig. 8. *Clermontia kīpahuluensis* St. John.
- Fig. 9. *Clermontia mauiensis* St. John.
- Fig. 10. *Clermontia pluriflora* St. John.
- Fig. 11. *Clermontia viridis* St. John.
- Fig. 12. *Clermontia waikoluensis* St. John.

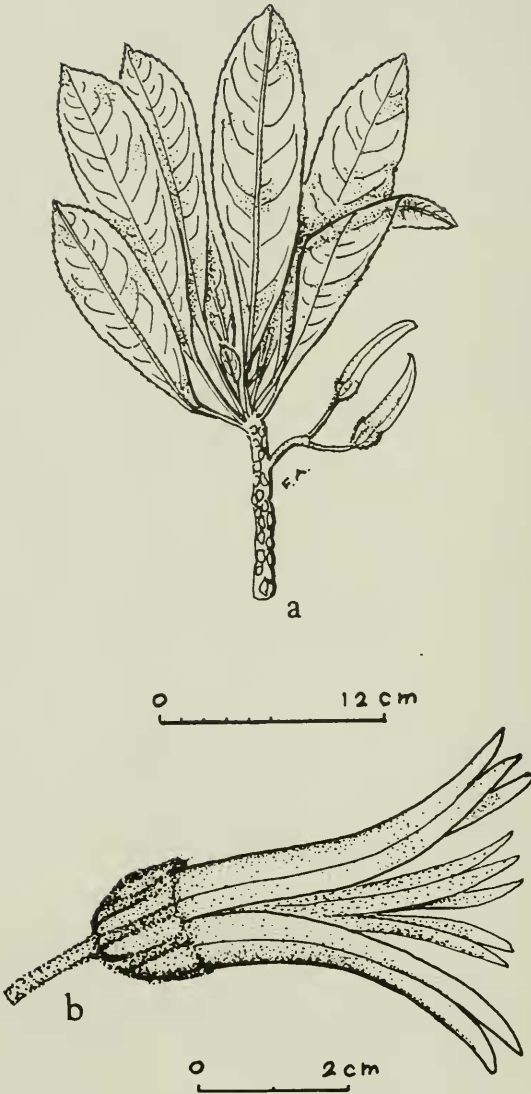


Fig. 1. *Clermontia albimontis* St. John

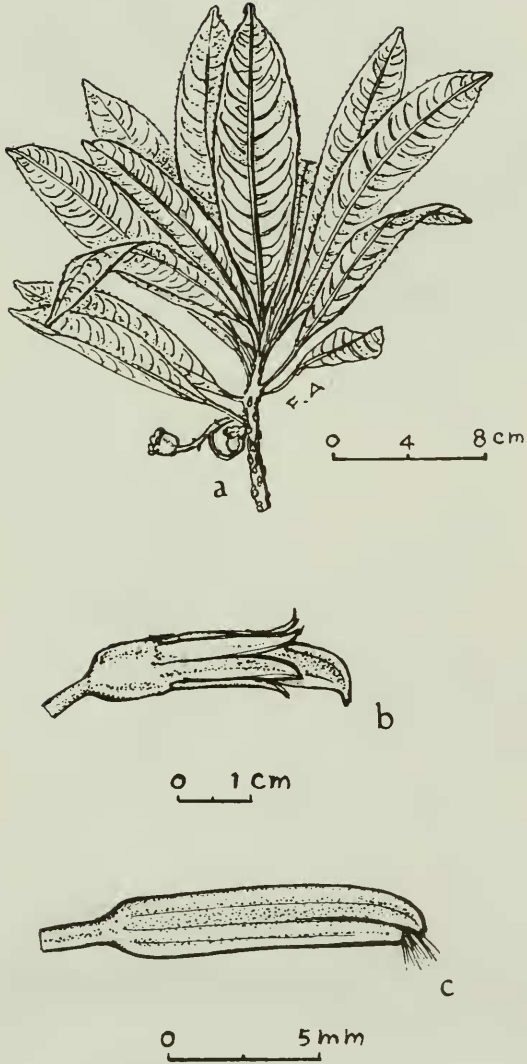


Fig. 2. *Clermontia bicolorata* St. John

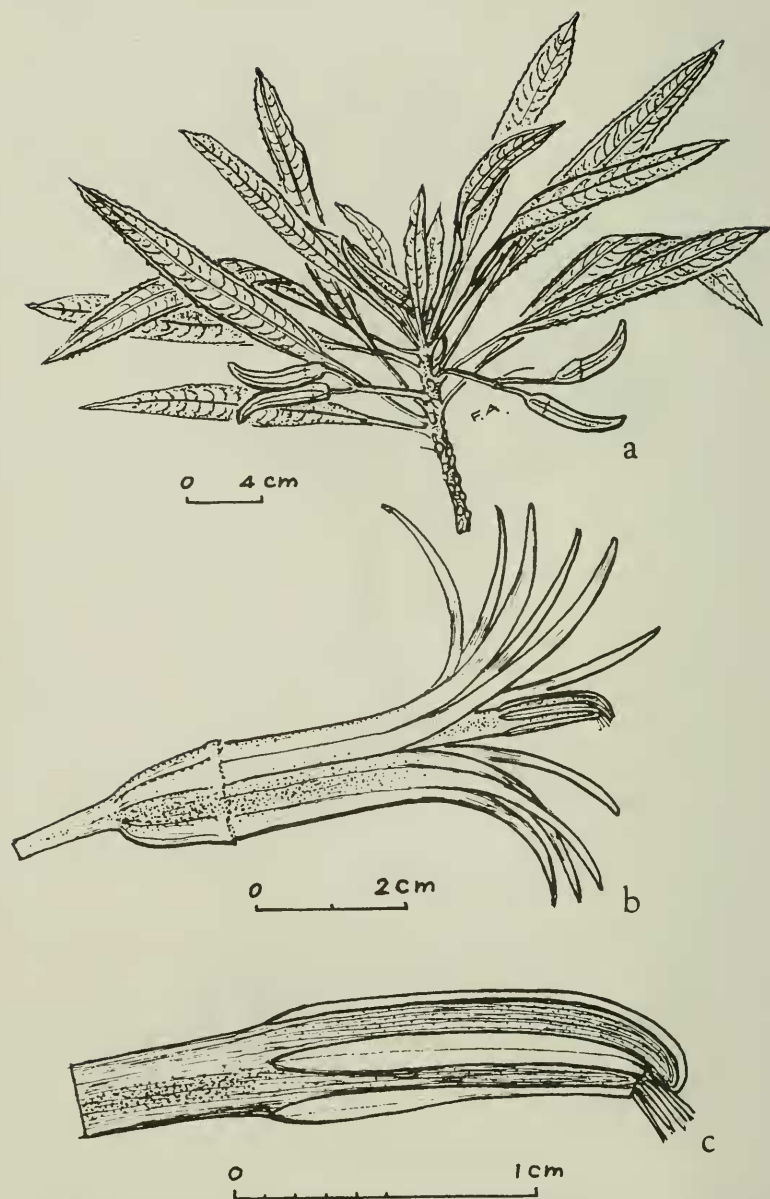


Fig. 3. *Clermontia epilosa* St. John

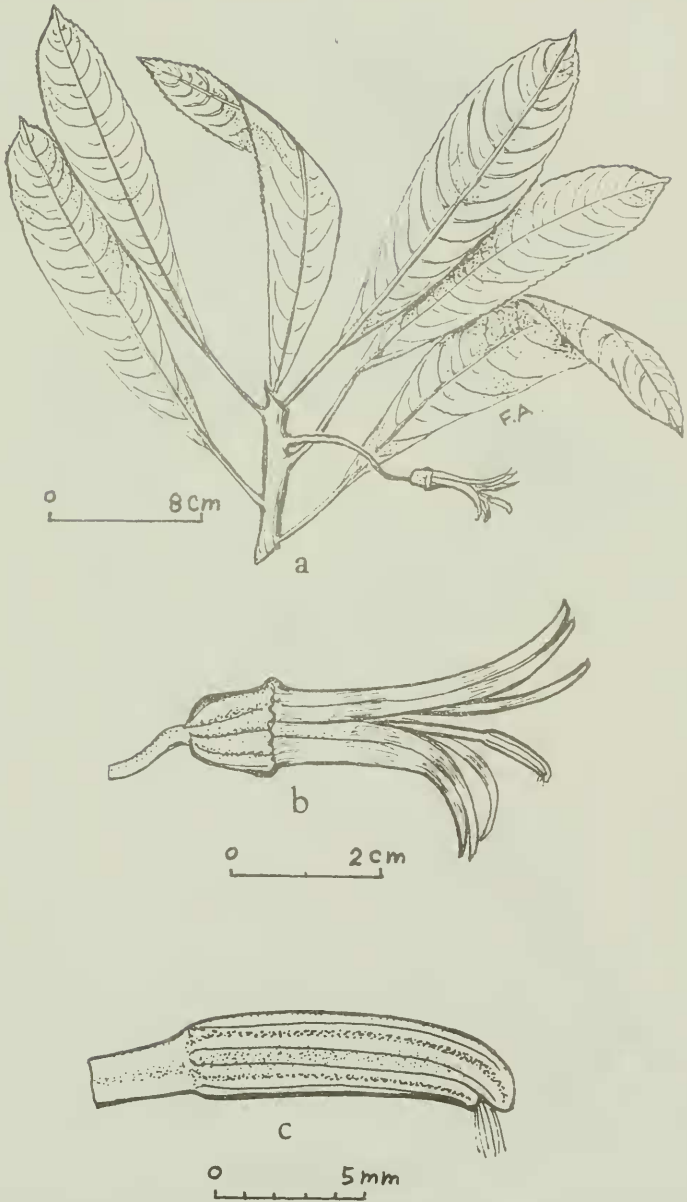


Fig. 4. *Clermontia glabra* St. John

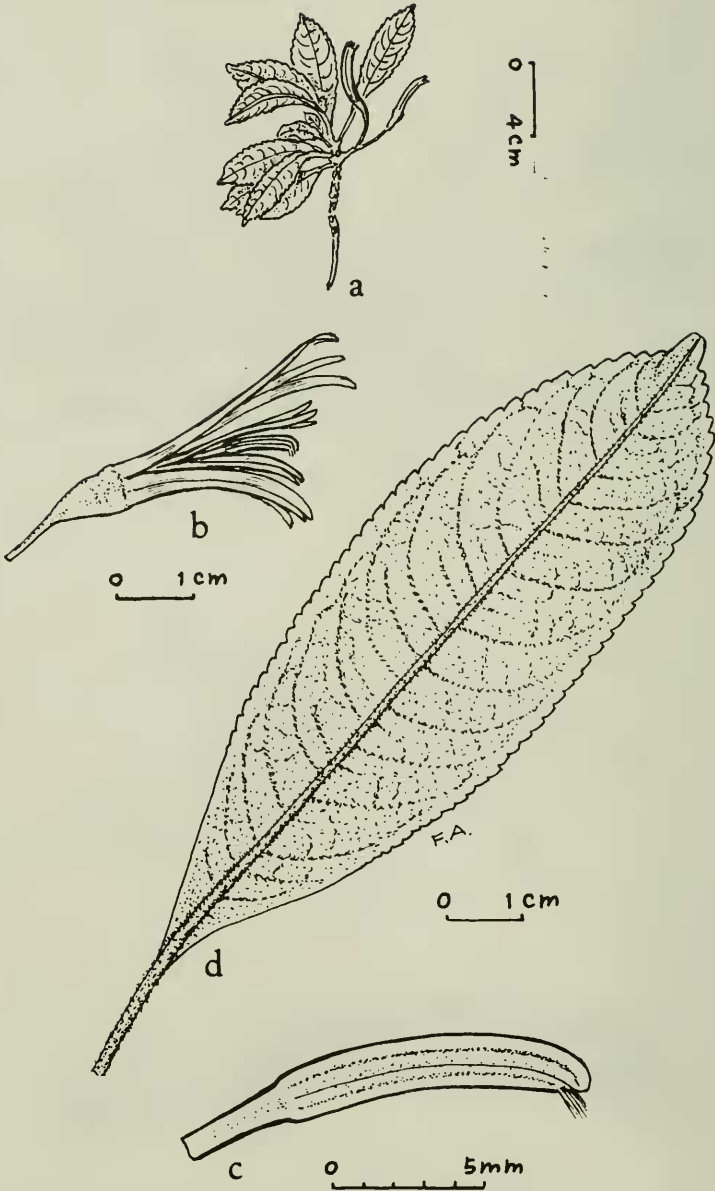


Fig. 5. *Clermontia gracilis* St. John

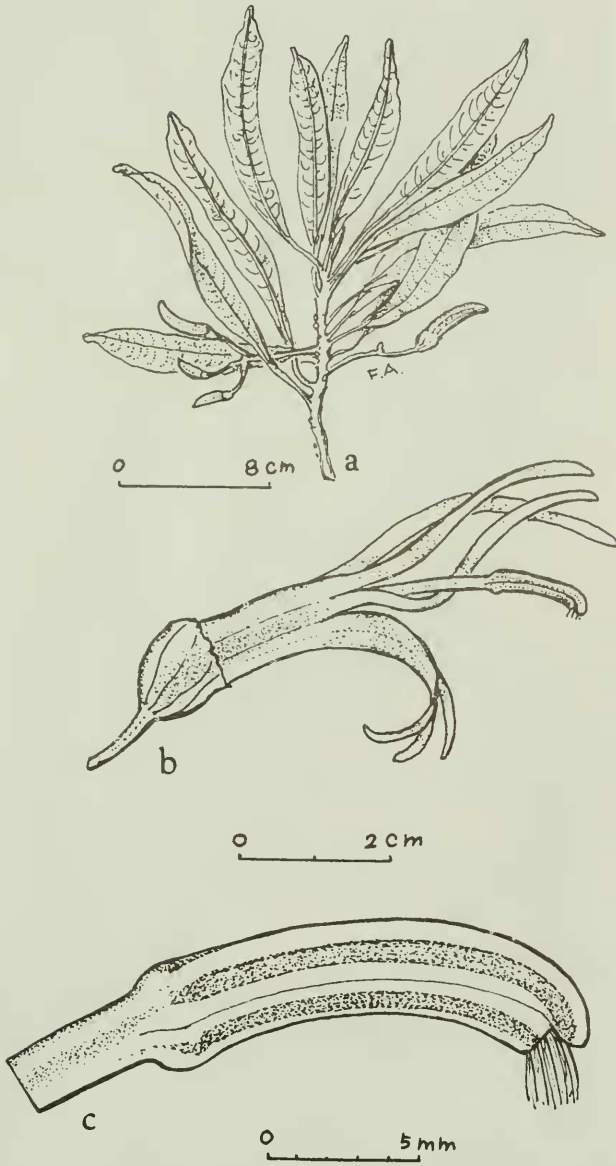


Fig. 6. *Clermontia hualalaiensis* St. John

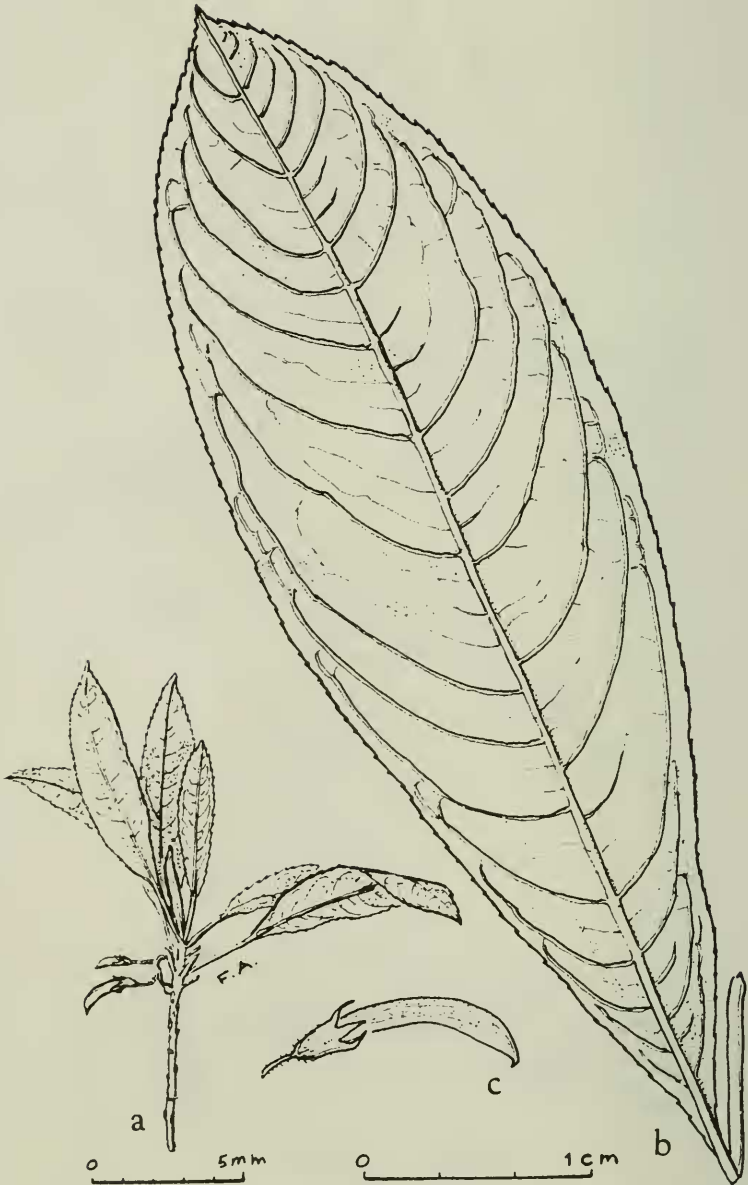


Fig. 7. *Clermontia kahuaensis* St. John

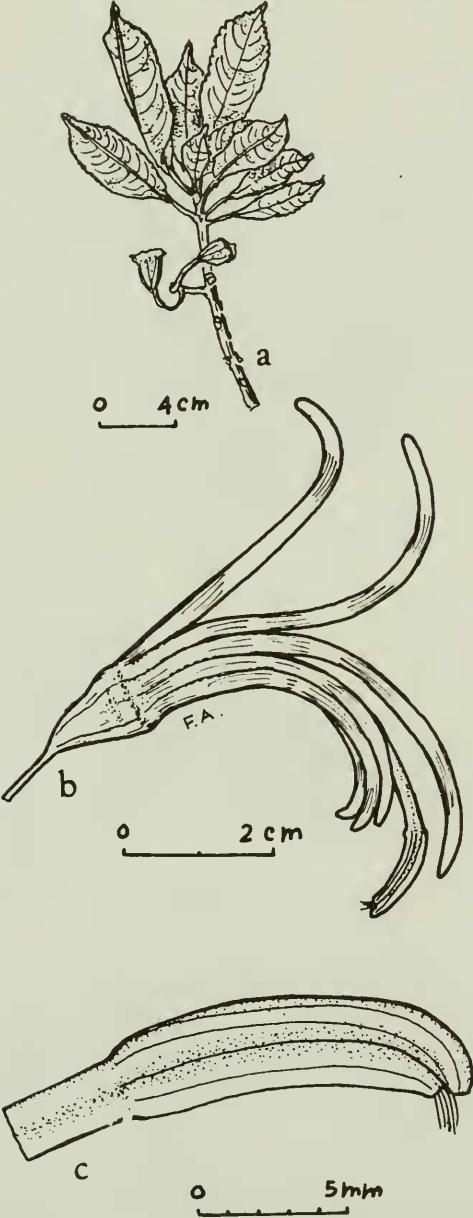


Fig. 8. *Clermontia kipahuluensis* St. John

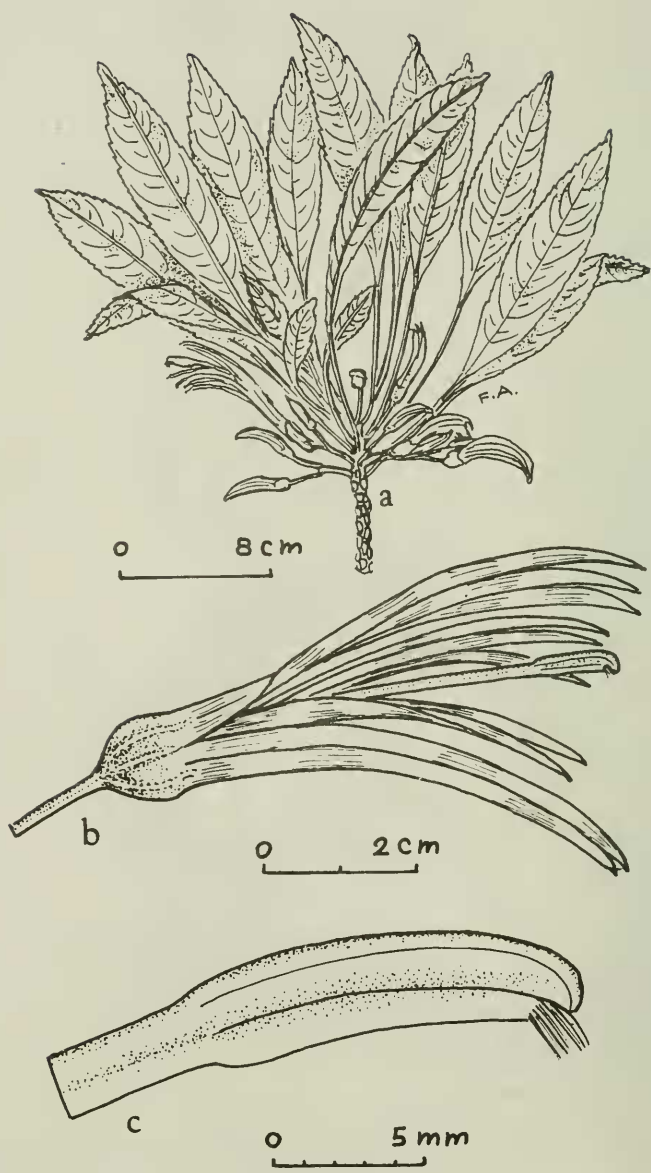


Fig. 9. *Clermontia mauiensis* St. John

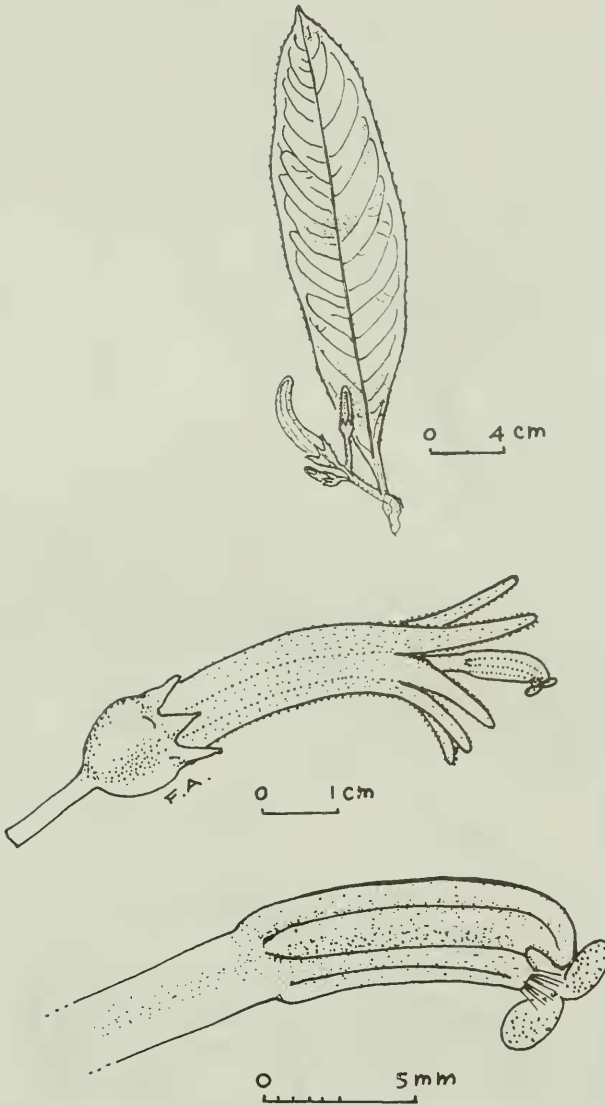


Fig. 10. *Clermontia pluriflora* St. John

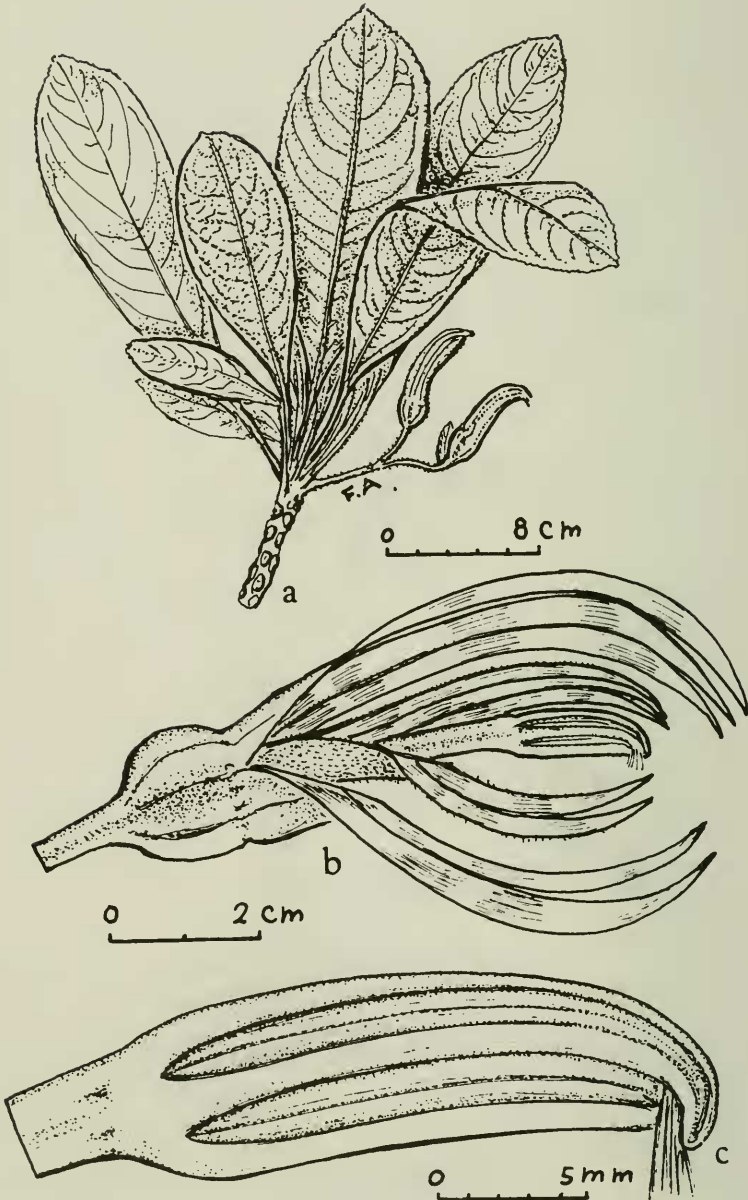


Fig. 11. *Clermontia viridis* St. John

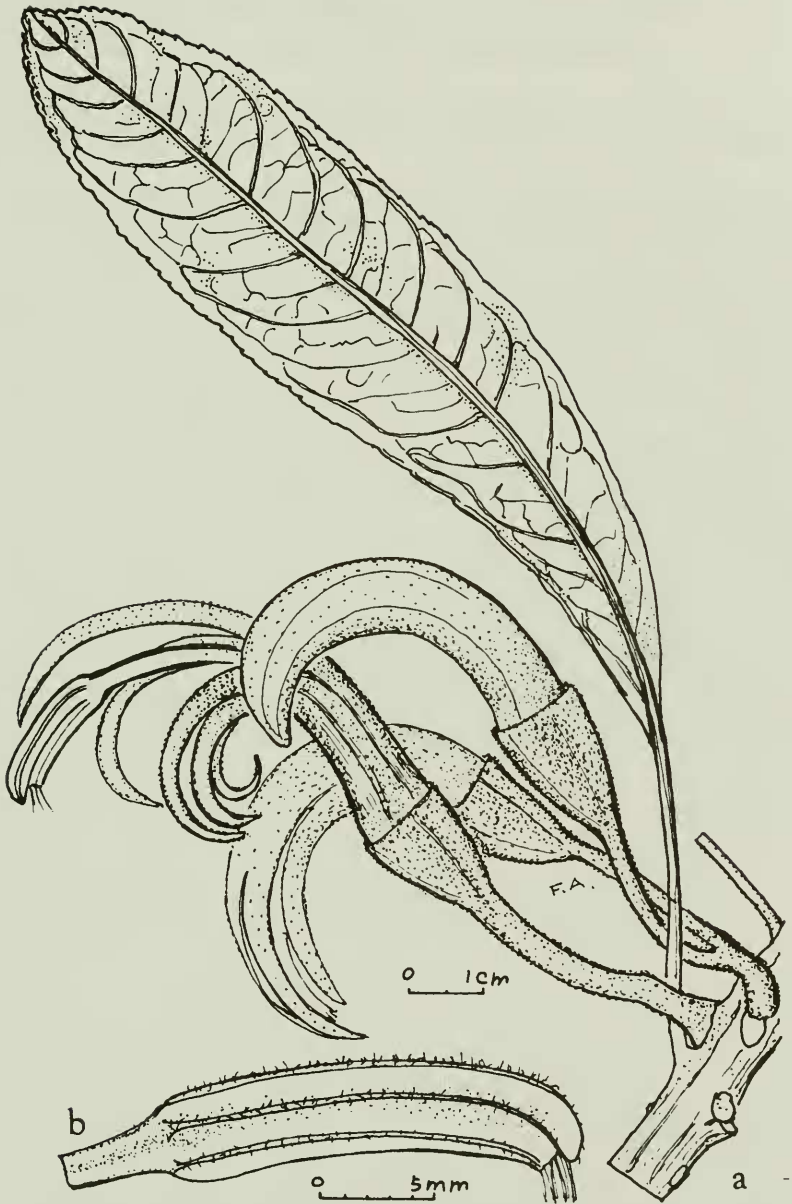


Fig. 12. *Clermontia waikoluensis* St. John